ultimately performs the 800 query and routing, the fact remains that final responsibility for the call resides with the carrier from whose central office the call originates (although in jointly provisioned services of this nature, issue resolution often requires both parties).

In the scenario described above, the carrier from whose central office the call originates simply purchases the query and routing functions from the neighboring carrier at the neighboring carrier's tariffed query rate. These per query costs then become components of the query rate charged by the originating carrier. The originating carrier can pass through the neighboring carrier's rate adjusted for additional administrative costs the originating carrier might incur. The originating carrier could also use the relevant tariffed query rate and related query demand of the neighboring carrier to develop a blended rate which it would then reflect in its own tariff.

In developing its 800 query rates, United did not know what rates would be filed by neighboring carriers whose tandems would provide SSP functionality for some United offices. United assumed the neighboring carriers' rates would be similar to United rates. Based on this assumption, United filed a single query rate for study areas that included exchanges subtending a neighboring carrier's SSP-equipped tandem. The United rate was based on its own costs and demand, excluding the demand associated with subtending exchanges. When rates are finalized

in this proceeding, United will determine if its query rate is substantially different from the rate being charged by carriers whose SSP offices United subtends. If the rates are significantly different, United will amend its current 800 data base access tariff to identify exchanges subtending other carriers' SSP-equipped tandems. The 800 data base query rates for calls originating from these subtending offices will, at that point, reflect the charges assessed to United by the neighboring carrier.

22. Should rate changes by the SCP owner be flowed through to the rates of the subtending (originating) LEC?UNITED RESPONSE: The subtending carrier should have an opportunity to justify any rate it proposes.

III. RESPONSES TO APPENDIX A OF THE ORDER

- A. <u>Unit Cost and Investment Information</u>

 UNITED RESPONSE: See the attached spreadsheets.
 - B. <u>Jurisdictional Separations</u>

UNITED RESPONSE: The attached spreadsheets identify gross investments and jurisdictionalized costs, per Part 36 of the Commission's Rules, as requested in Appendix A, Section II. It is important to note that United did not jurisdictionally allocate costs to develop its 800 data base access rates because the costs do not vary by jurisdiction. An intrastate query costs neither more nor less than an interstate query. United spread its 800 data base costs equally among all queries.

C. Demand

UNITED RESPONSE: See the attached spreadsheets.

- D. Other
- 1. If a discount rate is used in your demand calculations, explain the rationale for use of this rate.

UNITED RESPONSE: United used 11.25% as its discount rate for levelizing both costs and demand. This discount rate is appropriate because it is the interstate rate of return authorized by the Commission.

2. If you based your demand growth assumptions completely on past performance, explain why the introduction of 800 data base service will have no effect on the growth rate for 800 query demand for your company.

UNITED RESPONSE: See response to Question 18 in Section II, C above.

3. Explain how the demand assumptions were used in your ratemaking methodology.

UNITED RESPONSE: See response to Question 18 in Section II, C above. Also see Exhibit C.

4. Provide the annual costs for all expenses related to the SMS/800 incurred pursuant to contracts with Bellcore, Data Services Management, Inc., or any other entity. Provide the terms of the contract and an explanation of how the annualized amount is calculated.

UNITED RESPONSE: United's 800 data base query rates reflect an initial \$2,250,000 right-to-use fee assessed by Bellcore's 800 Number Administration and Service Center. This initial software fee has been amortized over five years. In addition, Bellcore will assess United an average of \$423,016 annually in data base

fees, which United will expense in the year the costs are incurred. These fees are rendered by Bellcore to data base owners pursuant to an Ameritech tariff, which is currently under investigation. Terms of the contract are explained in response to Question 14(6), Section II, C above.

5. Provide cost detail, by account, associated with upgrading the SSPs for 800 data base service and justify why those upgrades should be treated as exogenous costs.

UNITED RESPONSE: See spreadsheet A3. Also, see response to Question 11, Section II, C above.

6. If overhead costs were included as exogenous costs in your initial filing, justify whey those costs should be treated as exogenous costs.

UNITED RESPONSE: See response to Question 12, Section II, C above.

7. If signaling link costs between local STPs and regional STPs are included as exogenous costs, justify why those costs should be treated as exogenous costs.

UNITED RESPONSE: See response to Question 14 (5), Section II, C above.

8. If costs for regional or local STPs are included as exogenous costs, justify why those costs should be treated as exogenous costs.

UNITED RESPONSE: See response to Question 14 (4), Section II, C above.

9. For each of your company's SCPs, list and describe each service that is supported by that SCP (i.e., 800 data base, LIDB, virtual private networks, wide area Centrex or unrelated administrative functions). Provide a diagram of the equipment in an SCP installation typical for your company.

UNITED RESPONSE: United has deployed a mated pair of SCPs -- one in Johnson City, Tennessee, and the other in the neighboring city of Bristol, Tennessee. The SCPs were deployed as a mated pair for redundancy to enhance service survivability. All the United local exchange carriers access the SCP to provide data base services. The data base services are 800 Data Base Access Service, Line Information Data Base Service (LIDB), and a future Calling Name Delivery. A diagram of the United SCP installation is attached as Exhibit D.

800 Data Base Access Service -- 800 Data Base Access Service is described in detail in section "1.2 Service Description" (pages 1-2 through 1-5) of the D&J accompanying United Transmittal No. 316.

Line Information Data Base Access Service (LIDB) -- LIDB

Access Service provides for customer access to billing validation
data residing on United's data base for their use with alternate
billing services. This access allows customers to validate

United calling cards, and other exchange carrier calling card
data which may be resident there, and to screen billing numbers
for collect call and/or third number call acceptance.

<u>Calling Name Delivery</u> -- Calling Name Delivery permits a customer receiving a call to identify the name of the party placing the call.

10. If costs for the SCP are allocated among the functions described above, explain your allocation procedures and provide your allocation factors and how these factors were derived.

UNITED RESPONSE: See Exhibit C. Also see the United response to Question 16, Section II, C, above. Regarding allocation factors, United performed engineering studies to determine the length of a transaction for each type of data base service. The length of a transaction is the elapsed time between the launch of a query from a local switch and receipt of a data base response at the switch. The engineering studies produced the following factors:

- -- 800 Query: 1
- -- LIDB Query: 1.018
- -- Calling Name Delivery: 3

Demand for each service was weighted by a service's corresponding factor to ensure that SCP costs were apportioned equitably.

IV. PARTIAL SUSPENSION OF UNITED'S RATES WAS UNJUSTIFIED

As noted above, the Bureau's April 28, 1993, order held that United's rates were "anomalously high because they exceeded the industry mean rate plus one standard deviation." The Bureau ordered United to reduce its per-query rate to .0067 cents. The Bureau based its conclusion on the simplistic observation that "all LECs are deploying similar data bases." The order made no mention of the cost and demand data United submitted in support of its Transmittal No. 316. Also as noted above, United asked

^{10.} Suspension Order at 7-8.

^{11.} Id. at 8.

that the Commission stay the partial suspension and to reconsider the order on an emergency basis. The requests were never officially acknowledged. On the basis of its originally filed cost and demand data and the additional information provided in this direct case, United asks the Bureau to reconstitute United's query rates to the levels originally filed.

The Bureau's observation that "all LECs are deploying similar data bases" is correct. That is, the cost characteristics of the data base systems are similar. However, this reasoning completely ignores the demand side of the equation and United-specific costs.

If one assumes that costs are similar across data base systems, significant demand differences among carriers would result in significant variances in per-unit costs. That is, a carrier with demand significantly lower than the industry average would realize per-query rates proportionately higher than the industry average. This is precisely where the United companies find themselves. United's per-query rate is 2.27 times higher than the industry mean. However, the industry's mean demand is 2.69 times greater than United's demand. Said another way, if United's demand is normalized at the mean for all data base owners, the mean rate for all the United companies would be approximately .0035 cents per query, which is well below the industry mean rate. It is also important to note that United's

base year demand (levelized over five years) is reasonable by any measure in comparison with the industry's demand. For example, the mean demand for data base owners is 160.8 queries per access line. United's base year demand is 181 queries per access line.

Furthermore, notwithstanding that similar systems are being deployed, there may very well be costs unique to United. For example, United has reviewed the other LECs tariff filings and can not determine if local carriers other than NYNEX and United have paid right-to-use fees to Bellcore to be 800 data base owners/operators. United's right-to-use fee, which entitles United to receive downloads of 800 Information Records from the national SMS database, was \$2,250,000. While NYNEX's tariff filing indicated that the company paid a right-to-use fee, NYNEX's cost was less than half that of United's.

Respectfully submitted,

UNITED TELEPHONE COMPANIES

By:

Jay C Keithley

1850 M Street, N.W.

Suite 1100

Washington, D.C. 20036

(202) 857-1030

ITS ATTORNEY

September 20, 1993

SERVICE CONTROL POINTS (SCP)

Expenses - Common

Test Support Maintenance Application Software

Expenses - 800 Data Base Specific

800 Data Base Application Software 800 Data Base Software Maintenance

Five-year Total Expenses \$7,815,989 \$ 6,543,065

Levelized

Investment - Common

Hardware (DEC SCP 6310/6510) Initial Software/Right-to-Use Fee Installation Loading and Acceptance

Investment - 800 Data Base Specific

Initial Software/Right-to-Use Fee Installation Loading and Acceptance

Five-year Total Investment \$ 9,972,446 Levelized \$ 9.192,950

SERVICE MANAGEMENT SYSTEM (SMS)

Expenses - 800 Data Base Specific

Data Base Fee Translation and Validation Communications Services

Five-year Total Expenses \$ 1,764,893 Levelized \$ 1,397,487

Investment - 800 Data Base Specific

Right-to-Use Fee

Five-year Total Investment \$ 2,250,000 Levelized \$ 2,250,000

SMS-TO-SCP LINKS

Expenses - 800 Data Base Specific

Number Administrative Service Center (SMS-to-SCP) Links

Five-year Total Expenses \$80,000 Levelized \$ 61,982

STP-TO-SCP LINKS

Expenses - Common

C-Links

Five-year Total Expenses \$ - 0 -Levelized \$ - 0 -

REGIONAL STPs

Expenses - Common

Investment - Common

Software

Hardware

Intelligent Network Operating Expenses

Five-year Total Expenses \$ 3,245,000

648 531 Tes

\$ 6,023,160

Levelized

\$ 2,648,531

Five-year Total Investment Levelized

\$ 5,460,090

END OFFICE 800 DATA BASE SOFTWARE (Company Specific)

Expenses - 800 Data Base Specific

Software

Five-year Total Expenses \$ 1,408,164

Levelized

\$ 1,335,068

LOCAL STP PORTS

(Company Specific - FL, NC, OH/IN, PA)

Expenses - 800 Data Base Specific

Investment - 800 Data Base Specific

No expenses associated with

800 Data Base

Hardware

Five-year Total Investment \$ 192,000

Levelized

\$ 192,000

LOCAL STP TO REGIONAL STP LINKS (Company Specific)

Expenses - Common

Five-year Total Expenses \$ 2,610,756

Levelized

\$ 2,006,450

NORTHERN TELECOM

GFX554AA

ISSUED: 91 04 05

RELEASE: 01.05 STANDARD

DIGITAL SWITCHING SYSTEMS

DMS*-100 FAMILY GENERAL FEATURE DESCRIPTION

NTX554AA - SS7 - E800/SSP

* DMS is a trademark of Northern Telecom

Page : 67 pages

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GFX554AA

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2. FUNCTIONAL DESCRIPTION

FEATURE PACKAGE SYNOPSIS

CVerview

- 2.01 800 Service is an interexchange service in which the called party, rather than the calling party, subscribes to the service and pays for toll calls. The service provides businesses and other organizations with a means of providing potential sustemers, or other persons with whom they wish to communicate, a convenient and free method of contacting them. An 800 Service subscriber may choose to accept incoming calls from any telephone in the country or may decide to limit the service coverage to telephones in specific state or other geographic areas
- 2.02 800 Service that uses Common Channel Signaling Number 7 (CCS7) is called Z800/SSF Service. Offices offering Z600/SSP Service must be configured as Service Switching Points. An 5SP is an office that can support special application services such as E800/SSP.

Note: Within this document, the term CCS7 is used. Different standards organizations have used the terms CCS7 and Signaling System Number 7 (337). In this document, \$87 can substitute for CCS7.

- 2.03 E900/SSP Service is the first CCS7-based Network Signaling Service introduced in the DMS-100 Family. The NTX554AA feature package is surrently made up of one feature, F5674, E800, which provides E800/SSP service.
- 2.04 F5674 implements phase one of E800/SSP Service, which supports simple database query, response, and termination information with an Operating Company database located at a Service Control Point (SCP).

PEATURE PACKAGE DEPENDENCIES

- 2.05 The following feature packages are required for E800/SSP Service:
- * MTX000AA Bilge
- * NTX001AA Common Basic
- * NTX270AA New Peripheral Maintenance Package
- * NTX550AA \$87 Transaction Service Support.

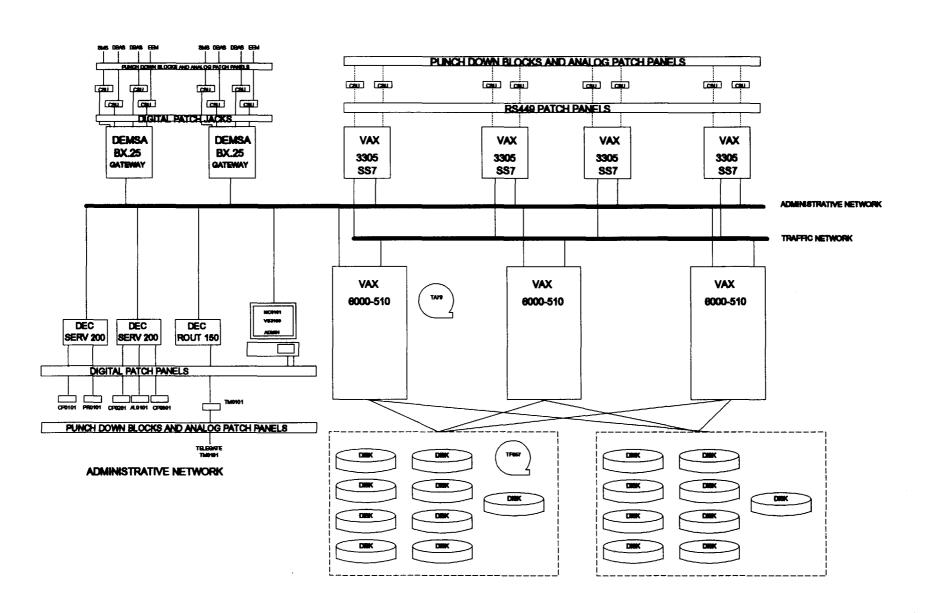
In an equal access end office, NTX186AA - Equal Access End Office is also required.

ALLOCATION OF COMMON AND DIRECT COSTS

EXHIBIT C

	COST POOL	ALL	OCATION METHOD		UNIT COST	TOTAL COST PER 800 DB QUERY
*	SCP Common	+	Total SCP Queries 800 DB Queries LIDB Queries Other Queries	=	Cost Per SCP Query	>
	800 DB Specific	+	Total 800 DB Queries	=	Cost Per 800 DB Query	>
2	SMS 800 DB Specific	+	Total 800 DB Queries	=	Cost Per 800 DB Query	>
2	SMS-TO-SCP LINKS 800 DB Specific	+	Total 800 DB Queries	=	Cost Per 800 DB Query	>
2	STP-TO-SCP LINKS Common	+	Total SCP Queries 800 DB Queries LIDB Queries Other Queries	=	Cost Per SCP Query	>
2	REGIONAL STPs Common	+	Total STP Demand Total SCP Queries Trunk Signalling	=	Cost Per STP Transaction	n>
8	EO 800 DB SOFTWARE 800 DB Specific	+ ?	800 DB Queries Company Specific	=	Cost Per 800 DB Query Company Specific	>
2	LOCAL STP PORTS 800 DB Specific	+	800 DB Queries Company Specific	=	Cost Per 800 DB Query Company Specific	>
2	LOCAL TO REG. STP LINKS Common	+	SCP Queries Company Specific 800 DB Queries LIDB Queries Other Queries	=	Cost Per SCP Query Company Specific	

SPRINT LTD SCP CONFIGURATION



INFORMATION REQUEST FOR 800 DATABASE SERVICE EXOGENOUS COSTS

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^{*} in actuality, these assets are owned by SUMC, not United Telephone—Rorida. The investment dollars shown reflect the allocation of a portion of SUMC's investment to United of Florida, based upon Florida's query volumes.

** The Commission's Part 35 and 69 Rules do not specify any cost allocation rules to disaggregate investment between 800 and other. The allocations shown in this exhibit were based on relative 800 and other (UDB & Calling Name) queries.

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z	Aertal Wite Acct 2431																	
N Martin	Cable Act 2428																	
ب	Bushed Coatse Acct 24(2)																	
¥	Underground Cable Acct 2422																	
7	Aerial Cable Acct 2621																	
	Poles Acct 2411																	
Ŧ	Terminal Equipment Acct 2362																	
	Chault Equipment Boot 2222											<u> </u>						
u.	Radio System Acct 2231			_														
ш	Digital Switching Acct 2212																	
۵	Analog Switching Acct 2211																	
u į	Purpose Computers Acct 2124																	
œ	Buildings Acct 2121																	
<	Land Acct 2111																	
		andem Switch	Total Investment	Company	Subject to Separation	State 500 Database	OPer	Interstate 800 Database	Interstate Other	Method of Assignment	Total Investment	Total Company	Subject to Separation	800 Detembese	State Other	Interstate 600 Detables	Interstate Other	Method of Assignment

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INFORMATION REQUEST FOR 600 DATABASE SERVICE EXOGENOUS COSTS

Jnited Telephon e – Indiana	A	B Buildings	C General Purpose Computers	D Analog Switching	E Digital Switching	F Radio System	G Circuit Equipment	H Other Terminal Foultement	l Poles	J Aeriel Cable	K Underground Cable	L Buried Cebie	M IntraBidg Natuurk Cable	N Aeriel Wire	O Conduit Systems	P Total
t. Unit Cost and Investment	Acct 2111	Aoct 2121	Acct 2124	Acct 2211	Acct 2212	April 2231		Acct 2362	Acct 2411	Acct 2421	April 2422	Acct 2428	Acct 2426	Acct 2431	Acct 2441	
STP/SCP Signalling Link																
Unit investment					0.0036100								L			0.009610
In the Changes																
Unit Costs Depreciation		т	r		0.0007219			1		r			г —			0.000721
Net Return				-	0.0002032		+									0.000203
Federal Income Tax					0.0001047		1	1					1			0.900104
State & Local Income Tax					0.0000183											0.000018
Maintenance					0.0006027											0.000002
Administration					0.0003156		<u> </u>	ļ			ļ		ļ <u>.</u>	ļ		0.000315
Other Tex Other Direct Expense					0.0000452			ļ								0.000045 None
Overhead Loadings					None None			\vdash			 		 			None
Total					0.0020117		 	i 1			 		 			0.002011
		L									·		·			
ocal STP/Regional STP Signs	Ming Link															
Unit Investment		L	l		0.0005750					L	L					0.00057
- 4.0																
Init Costs Depreciation					0.0001150								Τ-			0.00011
Net Return			ļ	 	0.0001180		1			 	 		 	 		0.00000
Federal Income Tax			 	 	0.0000167		1	 		 			 			0.00001
State & Local Income Tax					0.0000029		1						T			0.00000
Maintenance					0.0000960											0.00000
Administration					0.0000505											0.00008
Other Text					0.0000072						<u> </u>					0.00000
Other Direct Expense		<u> </u>		— ——	0.0003716		 _ _	<u> </u>					 	-		0.00087 None
Overhead Loadings Total		 	<u> </u>	<u> </u>	None 0.0006921			-		ļ			 	 		0.00069
1048		l	l		0.0000921					·	<u> </u>		Ц.			J 0.0000
CP/SMS Signelling Link																
Init investment		T			None			1					T			None
nit Costs						-										
Depreziation					None								<u> </u>			Mone
Net Return					None		_	ļ						_		None Hone None 0.00004
Federal Income Tax					None None											Magaz
State & Local Income Tax Maintenance		 		 	0.0000436		+			 			 	 -		0.00004
Administration		 		 	None		+ -	- 1		 	 		 	 		Name
Other Tax					None		+						t			None
Other Direct Expense Overhead Loadings					0.0002150	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										0.00021
Overhead Loadings					None _											None
Total			i	L	0.0002565					<u> </u>			<u> </u>	1		0.00025
CP																
Init investment			T	T	0.0091400		·r	r		1			Т	T		0.00914
77R, 017000110114			l		, 0.000 1700)		- 	L			I	· · · · · · · · · · · · · · · · · · ·	<u> </u>			1 7.000 1
nit Costs																*
Depreciation		I			0.0010279					Ĭ	<u> </u>		Ι			0,00182
Net Return				L`	0.0005144											0.0006
Federal Income Tax			l		0.0002980		1						ļ			0.0000
State & Local Income Tax					0.0000464								 	<u> </u>		0.0000
Maintenance		ļ	ļ	<u> </u>	0.0015259					 	 		1			0.00071
Administration Other Tex			 	<u> </u>	0.0007901		+	 		 	 		 			0.00011
Other Direct Expense	-	 		 	None		 	 		1			 	 		None
Overhead Loadings			 		None		1	 		†******************				<u> </u>	i .	None
Total					0.0050935	-				 				†		0.06800
									7,							
endem Switch													_			
init investment		L	L	<u> </u>	لـــــــــــــــــــــــــــــــــــــ			L	L	L		l	1		L	None
W. C																
nit Costs Depreciation			1	I -								 -	т	 		None
Net Return		 		 			+			 	+	 	 			
Federal Income Tax		-	 		 		+			 	+		 	+	 	None None
State & Local Income Tax			 	 			+	t		 			† 	 	-	None
		1	i e	 				1		1	1	-	1	1		Nane
Maintenance								1		1			Ī			None
Administration		l	1	1												
Administration Other Tax																None
Maintenance Administration Other Tax Other Direct Espense																None
Administration																

	<	80	o	٥	ш	Ŀ	5	Ξį	-	"	¥	٠	≥ q	z	0	٩
	Lend Acct 2111	Buildings Acet 2121	Purpose Computers Acct 2124	Analog Switching Acct 2211	Digital Switching Acct 2212	Redo System E Acct 2231	Circut 1 Equipment Ec Acct 2232 A	Terminal Equipment Acct 2382	Poles Acct 2411	Aestal Cabbe Acct 2421	Underground Cable Acct 2422	Busing Cabbe Acct 2423	Network Coatle Acct 2428	Aarlal Wire Acct 2431	Conduit Systems Acct 2441	TO TO
88P Unit investment								H	H							None
Unit Costs																
Depreciation					None				1							None
Net Mellin				†	S S S S S S S S S S S S S S S S S S S		+	+	†					1		E STATE
State & Local Income Tax					None											Pos
Maintenance					None											None
Administration			1	+	None	1	+	+								and a
Other Direct Expense				 	0.0023142			-								0.0023142
Overhead Loadings					None											None
Total					0.0023142											0.0023142
II. Juriedictional Separations																
STP/8CP Signalling Link																
Total investment *					\$80,123											\$60,123
Total Company *			1		500,123		1									2 2 2
State 600 Outstand #8					448.521	1	+	+	+							200
State Other ***				†	\$3,768			-								\$3,756
interstate 800 Database "*					700,02											100,007
Interstate Other #6					\$737											\$737
								-							1	
Machoo of Assignment					3		1									
Local STP/Pagional STP Signating Link	Mmg Link															
Total Company					None		+							1		2
Subject to Separation					None											None
State 500 Database					None			+								None
State Office				1	e de la		+	1								No.
merstate Other					None		+	+								No.
					1											
Method of Assignment																
SCP/SMS Standing Link																
Total Investment																None
Total Company																None
Subject to Separation								+								None :
State 500 Democre				1			1									
Princeton Princeton							+									- A
Interstate Other																None
Method of Assignment								H								None
a)S																
Total Investment *					\$145,903											\$145,903
Total Company *					\$145,903			H								\$146 903
Subject to Separation *					\$145,903											\$146,903
State 600 Database **					21.724											\$117,734
State Other ***					N S		+	+								7
The same of the sa					9000	1	+	+	1							CORP
HIND STREET CALLED					*											
Method of Assignment					CAT3		-									
				1												

* In actually, these assets are owned by SUMC, not United of Indiana. The Investment dollers shown reflect the ablocation of a portion of SUMC's investment but the ablocation by SUMC, not United or Indiana is greatly any oost allocation rules to designings investment between 800 and other. The affocations shown in this sethbit were based on relative 500 and other (LIDS & Calling Name) queries.

Q.	104	ACON	None	None	None	None	Norte	None			None	None	None	None	None	None	None
0	Conduit Systems Acct 2441																
z	Act 2431																
M Magada	Network Cable Act 2428																
_	Puted Cabbe And 2423																
¥	Underground Cable Acct 2422																
7	Coate Act 262																
-	Poles Acct 2411																
± 8	Terminal Equipment Acct 2362									:							H
G	Circuit Equipment Acct 2222	-	-	_			ļ Ļ				 -	ļ Ļ		_		_	Ц
u.	Redo System Acct 2231									ı							
ш	Digital Switching Acct 22/2									:							
٥	Analog Switching Acct 2211									1							
o general	Purpose Computers Acct 2124																
ω	Buildings Acct 2121																
<	Lend Acet 2111									ı							
		Tandem Switch Total Investment	Total Company	Subject to Separation	State 800 Detabase	State Other	Interstate 800 Detabase	Interretate Other	Method of Assignment	88P	Total Investment	Total Company	Subject to Separation	State 800 Detabase	State Other	friteristate 600 Datebase	Interstate Other

nied Telephone-Indiana

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	E
800 Database Queries	
ste 800 Database	
to Other	
aretitie 800 Detabase	
aratate Other	
se Petod Demend	19,644,670
Imeted Demend	7,024,415
ne Period	5 Yrs
COUNT Path	11,2500%

INFORMATION REQUEST FOR 800 DATABASE SERVICE EXOGENOUS COSTS

Carolina Telephone	A	В	C General Purpose	D Analog	E Digital	F Radio	G Circuit	H Other Terminal	ı	J Aerial	K Underground	L Burled	M IntraBidg Network	N Aurial	O Conduit	P
I. Unit Cost and Investment	Land Acct 2111	Buildings Acct 2121	Computers Acct 2124	Switching Acct 2211	Switching Acct 2212	System Acct 2231		Equipment Acct 2362	Poles Acct 2411	Cable Acct 2421	Cable Acct 2422	Cuble Acct 2423	Cable Acct 2436	Wire Acct 2431	Systems Acct 2441	Total
TP/SCP Signating Link																
Unit investment		<u> </u>	<u> </u>	l	0.0086100			Ll		<u> </u>	L			L		0.000610
init Costs																
Depreciation		T			0.0007220								1			0.000722
Not Roum			† · · · · · · · · · · · · · · · · · · ·		0.0002031											0,000200
Federal Income Tax					0.0001047											0.00016
State & Local Income Tax				L	0.0000265						ļ		L			0.00000
Meintenance Administration					0.0006182		 	-			 			ļ		0.00025
Other Tax					0.0002548	-	 									0.00002
					None											None
Other Direct Expense Overhead Loadings					None								T			None
Total				L	0.0019502		I									0.00195
ooel STP/Regional STP Signs Init investment	INING LINK		1		0.0002400											0.0002
AND DESCRIPTION OF THE PERSON		·		L	0.0002400}		<u> </u>			<u> </u>	1		-		L,	V.00024
nit Costs																
Depreciation			T		0.0000460					I						0.00004
Net Retim					0.0000135											0.0000
Federal Income Tax		ļ	ļ	<u> </u>	0.0000070		 							<u> </u>	L	0.00000
State & Local Income Tex Meintenance		 	 	<u> </u>	0.0000018		 			 	 		 			0.00004
Administration		 	 	†	0.0000111		 			 	 		 	 	-	0.00001
Other Tex		 	<u> </u>	1	0.0000014		 						1		-	0.00000
Other Direct Expense					0.0001135		1									0.00011
Overhead Loadings					None		I									None
Total		L		L	0.0002432		<u> </u>	L		<u>1</u>	L	L			L	0.00024
CP/SMS Signalling Link																
Unit investment			T				T	·			$\overline{}$		T		r	None
DIRECTION OF THE PROPERTY OF T				<u> </u>	·											1 110110
Init Costs																
Depreciation					None											None
Net Return					None		<u> </u>			ļ	I					None
Federal Income Tax State & Lacel Income Tax		-	 	 	None None		+				 		· · · · · · · · · · · · · · · · · · ·			None None
Maintenance			+	-	0.0000438		+				 		+			0.0000
Administration			†		Nane		1				<u> </u>					None
Other Tex					None											None
Other Direct Expense					0.0002150					l						0.0002
Overhead Loadings		<u> </u>			None		+				 		-			Nane
Total		L	L	L	0.0002565					1		L			L	0,0002
CP																
Unit Investment			T		0.0091400	,		T					T	Γ	Γ	0.00914
Init Costs			,	т				,					-		,	T
Depreciation		 	 	 	0.0018280			L		ļ	-		 			0.00180 0.0005
Not Return Federal Income Tex		 	 	 	0.0005148		 			 	+		+	 		0.0006
State & Local Income Tex		 	 	t	0.0000671		+	\vdash					+	 		0.0000
Maintenance		1	1		0.0015652					 	 		1		l	0.00156
Administration					0.0006452								I			
Other Tax					0.0000528											0.06000
Other Direct Expense				.	None					ļ						Nane
Overhead Loadings Total		 	ļ	1	None 0.0049377			<u> </u>			+	l ——	 			None 0.00495
1000			L	1	0.0000377	L			·	1	<u> </u>		٠	ь	L	0.00490
endem Switch																
Jnit investment					T							I		T	I	None
								^								
nit Costs				,				,		·						
Depreciation			1		None		1	1		ļ		ļ	_	ļ. <u></u>		None
Net Return		 	1	 	None		+				\leftarrow		+			None None
Federal Income Tax State & Local Income Tax		 	 	 	None None		+	—	<u> </u>	 	+	 	+	 	 	None
Maintanance			 	†	None		+	 		1	 	 	+	 	 	None
Administration			 		None		1	<u> </u>		†	 	t	+	 	1	None
Other Tex			1		None		1			1			1			None
Other Direct Expense					None						1					None
								1						1		None
Other Direct Expense Overhead Loadings Total		 		 	None None					 		ļ	+		· · · · · · · · · · · · · · · · · · ·	None

	A	В	C General	D	E	F	G	H Other	1	J	K	L	M IntraBidg	N	0	P
	Land Acct 2111	Buildings Acct 2121	Purpose Computers Acct 2124	Analog Switching Acct 2211	Digital Switching Acct 2212	Radio System Acct 2231	Circuit Equipment Acct 2232		Poles Acct 2411	Aerial Cable Acct 2421	Underground Cable Acct 2422	Builed Cable Acct 2423	Network Cable Acct 2426	Aerial Wire Acct 2431	Conduit Systems Acct 2441	Total
SP .																
nit investment	1		ſ	1	None		77			1	I				1	None
					-											
t Costs																
epreciation				ļ	None		1								<u> </u>	None
et Return ederal Income Tax					None		+								 	None
tate & Local Income Tax	<u> </u>			-	None		1 1				l				 	Non
laintenance					None		+	-+	····	 				· · · · · · · · · · · · · · · · · · ·	 	Non
dministration				·	None	-	+									Non
Wher Tax				1	None											Non
Wher Direct Expense					0.0007234											0.000
Verhead Loadings					None											None
otel				l	0.0007234											0.000
P/SCP Signalling Link tal investment *	I	=	I	I	\$720,341		1				<u> </u>					\$7
otal Company *					\$720,341											\$72
Subject to Separation *					\$720,341											\$72
tale 800 Database ***		_			\$520,767		ļ				ļi					\$62
tate Other **				1	\$83,527					ļ					\vdash	\$8
nterstate 800 Database ** nterstate Other **	1			1	\$100,007 \$16,040		-									\$10 \$1
THE SUM COLOR -	L		I		\$10,040						L				11	
lethod of Assignment	T			Т	Cet 3		1 1	Т		r	тТ					
cal STP/Regional STP Sign	nalling Link															
otal Investment Total Company					\$45,000 \$46,000					 	<u> </u>				 	\$4
Subject to Separation			 		\$48,000		+ +			 	-				 	14 14 13
tate 800 Database				 	\$34,701		1 1								 	\$3
State Other				t i	\$5,566		+			<u> </u>						7
				1	44 44 4						 				1	
	l		l	·	\$6,664					1						
nterstate 800 Database					\$1,089											
nterstate 800 Database nterstate Other					\$1,089											
nterstate 800 Database nterstate Other		_														-
meratate 800 Database meratate Other athod of Assignment					\$1,089											
nterstate 500 Database nterstate Other ethod of Assignment :P/SMS Signatling Link					\$1,089											
Interstate 800 Database Interstate Other ethod of Assignment IP/SMS Signalling Link Islands Investment					\$1,089											None
riteratute 800 Database riteratute Other ethod of Assignment P/SMS Signalling Link stal Investment otal Company					\$1,089											None None None
Interstate 800 Database Interstate Other Interstate Other Interstate Other Interstate Other Interstate Other Interstate I					\$1,089											None None None None
Interelate 800 Detablese Interelate Other self-od of Assignment CP/SMS Signalling Link otal Investment fotal Company Subject to Seperation State 800 Detablese State Other					\$1,089											None None None None None
merstate 800 Database riserstate Other ethod of Assignment CP/SMS Signalling Link stall Investment fold Investment State Other State 800 Database State Other Interstate 800 Database					\$1,089											None None None None None
rierstate 800 Detabase rierstate Other sthod of Assignment P/SMS Signelling Link stal investment otal Company ubject to Separation tate 800 Detabase tate Other terstate 800 Database					\$1,089											Non- Non- Non- Non- Non- Non-
reretate 800 Detabase risoriate Other sthod of Assignment P/SMS Signelling Link dal Investment dal Company ubject to Separation tate 800 Detabase tate Other risoriate 800 Detabase investate 800 Detabase					\$1,089											Non- Non- Non- Non- Non- Non-
reretate 800 Detabase risoriate Other sthod of Assignment P/SMS Signelling Link dal Investment dal Company ubject to Separation tate 800 Detabase tate Other risoriate 800 Detabase investate 800 Detabase					\$1,089											Non- Non- Non- Non- Non- Non-
reretate 800 Detabase rismitate Other sehod of Assignment P/SMS Signalling Link stal Invasiment otal Company subject to Separation issue 600 Database tate Other rismitate 800 Database rismitate 800 Database rismitate Other					\$1,089											Non- Non- Non- Non- Non- Non-
reretate 900 Detabase riversite Other self-od of Assignment P/SMS Signelling Link fall investment otal Company subject to Separation state 900 Detabase riversites 900 Detabas					\$1,000 Cat 3											Non- Non- Non- Non- Non- Non- Non- Non-
meretate 800 Detablese riverside Other sthool of Assignment prySMS Signalling Link stall investment otal Company Subject to Separation State 800 Database State Other otherwise 800 Database interstate Other seriod of Assignment production of					\$1,000 Cat 3 \$1,781,974 \$1,781,974											Non- Non- Non- Non- Non- Non- Non- Non-
meretate 800 Detablese interstate 60 Per enterstate 60 Per enterst					\$1,000 Cat 3 \$1,781,974 \$1,781,974 \$1,781,974											Non- Non- Non- Non- Non- Non- Non- Non-
Interestate 800 Detablese Interestate Other Interestate Other Interestate Other Interestate Other Interestate Other Interestate Other Interestate State Other Interestate 800 Detablese Interestate State Other Interestate In					\$1,000 Cat 3 \$1,731,974 \$1,781,974 \$1,781,974 \$1,317,946											None None None None None None None S1,78 S1,78 S1,78 S1,78
Interstate 800 Detablese interstate 600 Detablese interstate 60 per enterstate 600 Detablese interstate 600 Detablese interstate 60 per enterstate 60 per en					\$1,781,974 \$1,781,974 \$1,781,974 \$1,781,974 \$1,781,974											Non- Non- Non- Non- Non- Non- Non- Non-
Interestate 800 Detablese Interestate Other selfood of Assignment P/SMB Signalling Link sall Investment Cotal Company State 000 Database Interestate 0000 Interestate 00000 Interestate 0000 Interestate 0000 Interestate 0000 Interestate 0000 Interestate 0000 Interestate 00000 Interestate 00000 Interestate 0000 Interestate 00000 Interestate 00000 Inter					\$1,000 Cat 3 \$1,781,974 \$1,781,974 \$1,781,974 \$1,317,946 \$178,950 \$253,095											Non- Non- Non- Non- Non- Non- Non- Non-
reretate 800 Detabase riuralate Other sthod of Assignment P/SMS Signatling Link stal Investment otal Company ubject to Separation sate 800 Detabase state Other startout 800 Detabase state Other startout 800 Detabase state Other stal Investment p stal Investment * otal Company * stal Investment * otal Company * stale 800 Detabase ** state 800 Detabase **					\$1,781,974 \$1,781,974 \$1,781,974 \$1,781,974 \$1,781,974											Non Non Non Non Non Non \$1,78 \$1,77 \$1,77 \$1,77

^{*} In actuality, these assets are owned by SUMC, Carolina Telephone. The investment dollars shown reflect the allocation of a portion of SUMC's investment to Carolina Telephone, based upon Carolina's query volumes.

** The Commission's Part 35 and 69 Rules do not specify any cost allocation rules to disaggregate investment between 800 and other. The allocations shown in this exhibit were based on relative 800 and other (LIDB& Calling Name) queries.

۵	19		200	None	None	None	None	None	None				None	2	None	None	None	9	None		
0	Condutt Systems Acrt 2441																				
z	Merial Wire Sect 2431																				
M Maria	Network Cable																				
_	Bushed Cabble And Sales																				
¥	Underground Cable Acrt 2622																				
7	Andal Cable																				
-	Poles Acre 241																				
ΞŽ	Terminal Equipment Acct 2362							_													
Ø	Circuit Equipment Acre 2220																				
u	Redo System Acet 2231																				
ш	Digital Switching Acet 2212																				
٥	Analog Switching Acet 2211																				
ပ မ	Purpose Computers Acrt 2124																				
a	Buildings Acct 2121																				
∢	Acet 211																				
		Tandem Switch Total Investment	Total Company	Subject to Separation	State 500 Database	State Other	Interstate 500 Database	Interstate Other		Method of Assignment	SSP	Total Investment	Total Company	Subject to Separation	State 500 Detabase	State Other	Interplate 800 Database	Interotate Other		Method of Assignment	

Total			9			185,576,96	29,099,600	SYR
800 Detailorge Queries	State 500 Database	State Other	Interstate 600 Detabas	Interstate Other	Bess Padod Demand	Estimated Demand	Time Period	Discount Rate

< 10 P	!						186,576,961	659,663,625	5 Yrs	11.2500%
Carolina Telephone III. Demend	800 Delphase Queries	State 500 Database	State Other	Interstate 800 Detabase	Interstate Other	Bese Paled Demand	Estimated Demand	Time Period	Discount Rate	

INFORMATION REQUEST FOR 800 DATABASE SERVICE EXOGENOUS COSTS

	A	В	C General Purpose	D Analog	E Digital	F	G Circuit	H Other Terminal	1	J Aeriel	K Underground	L Buried	M IntraBidg Network	N Aerial	C) Conduit	P
I. Unit Cost and investment	Land Acct 2111	Buildings Acct 2121	Computers Acct 2124	Switching Acct 2211	Switching Acct 2212	System Acct 2231	Equipment	Equipment Acct 2362	Poles Acct 2411	Cable Acct 2421	Cable Acct 2422	Cable Acct 2423	Cable Acct 2428	Wire Acct 2431	Systems Appt 2441	Total
STP/SCP Signalling Link										,						
Unit investment		J	L		0,0086100	L	┸	L		L			L	L	L	0.0086100
Unit Costs																
Depreciation		L			0.0007220											0.0007220
Net Return Federal Income Tax		 	 		0.0002032		┿			<u> </u>						0.0001047
State & Local Income Yax					0.0000000		 						<u> </u>			0.0000000
Maintenance					0.0006026											0.0000028
Administration Other Tax					0.0002641		<u> </u>			ļ				 	<u> </u>	0.0002641
Other Direct Expense		 	 -		None	·	┼			 			 	 		None
Overhead Loadings					None		T									None
Total					0.0019668					L			1	L	L	0.001988
Local STP/Regional STP Signa	with a finite															
Unit investment					0.0005750		L						I			0.6005760
Unit Costs																
Depreciation		Ţ			0.0001150											0.9001150
Not Rourn Federal Income Tax		 	 		0.0000324	<u> </u>		 			f					0.0000034
State & Local Income Tax		 	†		0.0000000		 			 			 	t	 	0.000000
Maintenance Administration					0.0000960											0.0000000
Administration					0.0000421								Ļ			0.0000421
Other Tax Other Direct Expense		 -	 		0.0000144		 			} -			 	 	 	0.0000144
Overhead Loadings		 	1		None	 	 							 		None
Total					0.0006881											0.0000001
SCP/SMS Signalling Link Unit Investment		r						,								None
		٠			L	L	J		<u> </u>	L		<u> </u>	L	L		- INCIDE
Unit Costs																
Depreciation		ļ			None											None
Net Return Federal Income Tex		 			None None		₩	 	L		<u> </u>		 		<u> </u>	None None
State & Local Income Tax		 	 		None		+	 	·				 			None
State & Local Income Tax Meintenance Administration					0.0000436											0.0000436
Administration		 	.		None			1		└ ──	<u></u>		L	<u> </u>	}	None
Other Tex Other Direct Expense		 	 		None 0.0002150		+	├			<u> </u>					None 0.9602180
Overhead Loudings		 	1		None		 	<u> </u>					 			None
Total		I	I		0.0002565		I								L	0.0002566
SCP																
Unit investment		т			0.0091400								Γ	T		0.0091400
																
Unit Costs										···			,			1
Sepreciation Net Return		 	 		0.0018280		+	 		├ ──	 		 		 	0.0019290 0.0005144
Federal Income Tex		 	 		0.0002650		 	 		 	 		 		 	0.0002000
State & Local Income Tax					0.0000000											0.0000000
Meintenance		ļ	1		0.0015257						ļ					0.0015257
Administration Other Tex		}	 		0.0006668	 	 	 			 		 	 		0.0002284
Other Direct Expense		 	 		None		-		 	 	f		 	 		None
Overhead Loadings					None											None
Total					0.0050304		1	L	L							0.0050304
Tendem Switch																
Unit investment		т	T		7	T	7	Т					T	T		None
														·		
Unit Costs			,		·——									,		
Depreciation Net Return		 	}		 	 	 	 	 	 	 		 	 		None None
Federal Income Tax		 	 		 	 	+		 		 		 	 	 	None
Chair & Land Income Toy		 	t							t	1			1		None
Maintenance																None
Maintenance Administration Other Tax		-	-								 		 	 		None None
Other Tax Other Direct Expense		+	 		 		 	 	 	 	 	 	 	+	 	None
Overhead Loadings			<u> </u>			t					1		1	<u> </u>		None
Total		L				1			L					J		None